

Implantable Cardioverter Defibrillators (ICD)

MPM 9.5

Disclaimer Refer to the member's specific benefit plan and *Schedule of Benefits* to determine coverage. This may not be a benefit on all plans or the plan may have broader or more limited benefits than those listed in these criteria.

Description The Implantable Cardioverter Defibrillator (ICD), also known as Implantable Automatic Cardiac Defibrillator, is an electronic device designed to detect and treat life-threatening tachyarrhythmias. The device consists of a pulse generator and electrodes for sensing and defibrillating.

Coverage Determination **Benefit Certification is not required. However, all claims are subject to retrospective review. The following guidelines apply:**

The Implantable Automatic Cardiac Defibrillator is covered for indications identified by CMS National Coverage Determination 20.4; the CMS NCD 20.4 can be located at following Web address: http://www.cms.hhs.gov/mcd/viewncd.asp?ncd_id=20.4&ncd_version=3&basket=ncd%3A20%2E4%3A3%3AImplantable+Automatic+Defibrillators

Coding **The coding listed in this Medical Policy is for reference only. Covered and non-covered procedures are within this list.**

CPT Codes	Description
33216	Insertion of a transvenous electrode; single chamber (one electrode) permanent pacemaker or single chamber pacing cardioverter-defibrillator.
33217	Insertion of a transvenous electrode; single chamber (two electrodes) permanent pacemaker or single chamber pacing cardioverter-defibrillator.
33224	Insertion of pacing electrode, cardiac venous system, for left ventricular pacing, with attachment to previously placed pacemaker or pacing cardioverter-defibrillator pulse generator (including revision of pocket, removal, insertion and/or replacement of generator).
33225	Insertion of pacing electrode, cardiac venous system, for left ventricular pacing, at time of insertion of pacing cardioverter-defibrillator or pacemaker pulse generator (including upgrade to dual chamber system). (List separately in addition to code for primary procedure.)
33240	Insertion of single or dual chamber pacing cardioverter-defibrillator pulse generator.
32249	Insertion or repositioning of electrode lead(s) for single or dual chamber pacing cardioverter-defibrillator and insertion of pulse generator.

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HCPCS® Codes	Description
C1721	Cardioverter-defibrillator; dual chamber (implantable)
C1722	Cardioverter-defibrillator; single chamber (implantable)
C1733	Cardioverter-defibrillator; other than single or dual chamber (implantable)
G0297	Insertion of single chamber pacing cardioverter defibrillator pulse generator
G0300	Insertion or repositioning of electrode lead(s) for dual chamber pacing cardioverter defibrillator and insertion of pulse generator

ICD-9® Diagnosis Codes	Description
402.00	Malignant hypertensive heart disease with heart failure
402.11	Benign hypertensive heart disease with heart failure
402.91	Unspecified hypertensive heart disease with heart failure
404.01	Hypertensive heart and chronic kidney disease, malignant
404.11	Hypertensive heart and chronic kidney disease, benign
404.13	Hypertensive heart and chronic kidney disease, benign
404.91	Hypertensive heart and chronic kidney disease, unspecified
404.93	Hypertensive heart and chronic kidney disease, unspecified
410.00– 410.02	Acute myocardial infarction of anterolateral wall
410.10– 410.12	Acute myocardial infarction of other anterior wall
410.20– 410.22	Acute myocardial infarction of inferolateral wall
410.30– 410.32	Acute myocardial infarction of inferoposterior wall
410.40– 410.42	Acute myocardial infarction of other inferior wall

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ICD-9© Diagnosis Codes	Description
410.50– 410.52	Acute myocardial infarction of other lateral wall
410.60– 410.62	True posterior wall infarction
410.70– 410.72	Subendocardial infarction
410.80– 410.82	Acute myocardial infarction of other specified sites
410.90– 410.92	Acute myocardial infarction of unspecified site
412	Old myocardial infarction
414.8	Other specified forms of chronic ischemic heart disease
425.1	Hypertrophic obstructive cardiomyopathy
425.4	Other primary cardiomyopathies
426.82	Long QT syndrome
427.1	Paroxysmal ventricular tachycardia
427.41	Ventricular fibrillation
427.5	Cardiac arrest
427.89	Other specified cardiac dysrhythmias
428.0	Congestive heart failure unspecified
428.1	Left heart failure
428.20- 428.23	Systolic heart failure
428.30- 428.33	Diastolic heart failure

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ICD-9© Diagnosis Codes	Description
428.40- 428.43	Combined systolic and diastolic heart failure
428.9	Heart failure unspecified
746.89	Other specified congenital anomalies of heart
996.72	Other complications due to other cardiac device implant and graft

- References:**
1. Centers for Medicare and Medicaid Services. National Coverage Determination 20.4. Implantable Automatic Defibrillators. Last modified 5-30-08.
 2. Hayes Directory. Copyright © Winifred S. Hayes, Inc. 2005. Implanted Cardioverter defibrillators for Secondary Prevention of Sudden Cardiac Death. November 28, 2005. Hayes Update Search, February 19, 2009.
 3. Hayes Directory. Copyright © Winifred S. Hayes, Inc. 2005. Implanted Cardioverter defibrillators for Primary Prevention of Sudden Cardiac Death. December 9, 2005. Hayes Update Search, February 18, 2009.
 4. Milliman Care Guidelines ®. 14th Edition. Electrophysiologic Study and Implantable Cardioverter-Defibrillator (ICD) Insertion, Transvenous. ORG: M-157(ISC). Last updated: 02-09-10.

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This Medical Policy is intended to represent clinical guidelines describing medical appropriateness and is developed to assist Presbyterian Health Plan and Presbyterian Insurance Company, Inc. (Presbyterian) Health Services staff and Presbyterian medical directors in determination of coverage. The Medical Policy is not a treatment guide and should not be used as such.

For those instances where a member does not meet the criteria described in these guidelines, additional information supporting medical necessity is welcome and may be utilized by the medical director in reviewing the case. Please note that all Presbyterian Medical Policies are available online at our website at:

<http://www.phs.org/phs/healthplans/providers/healthservices/Medical/index.htm>

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